

FIG.1

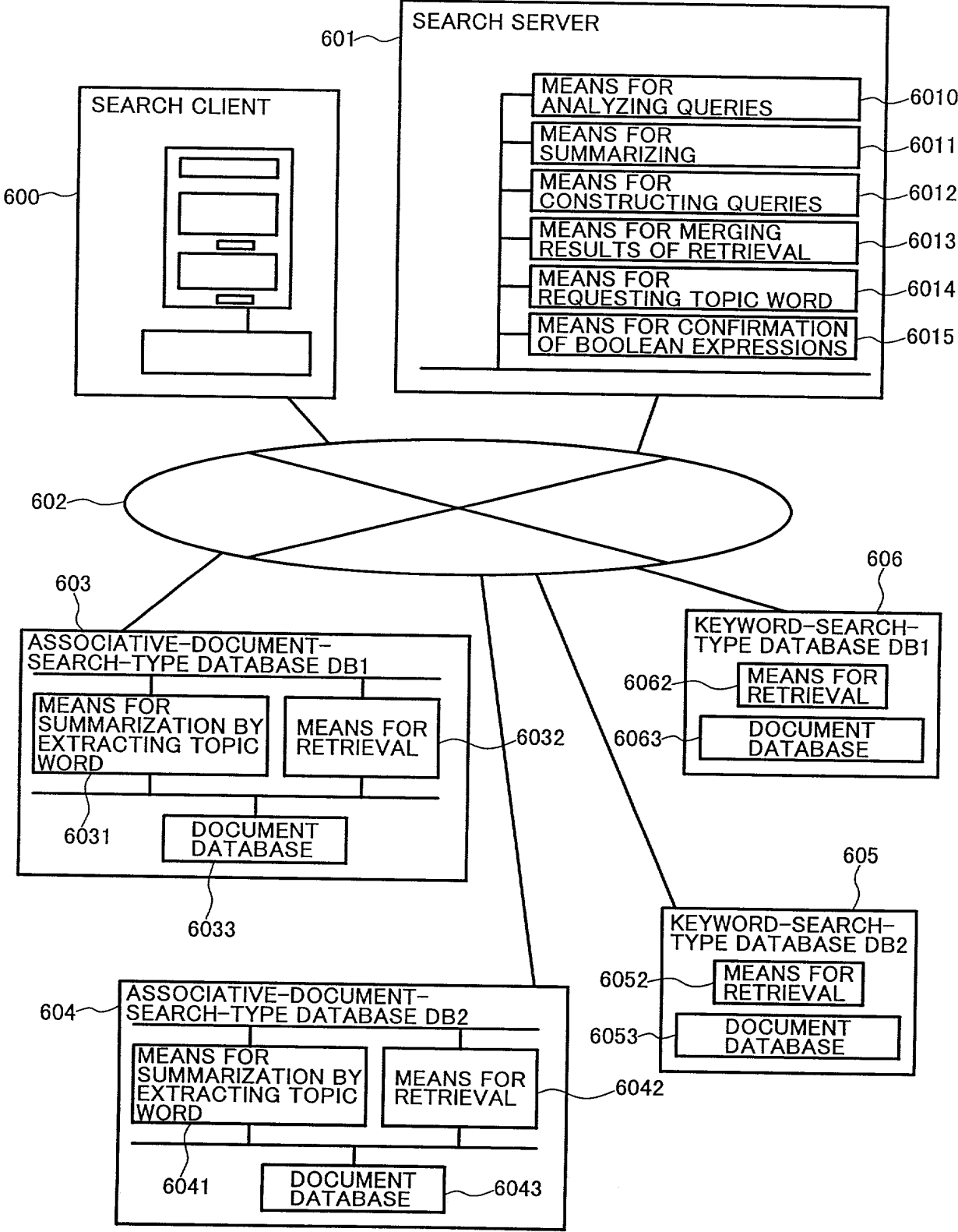


FIG.2

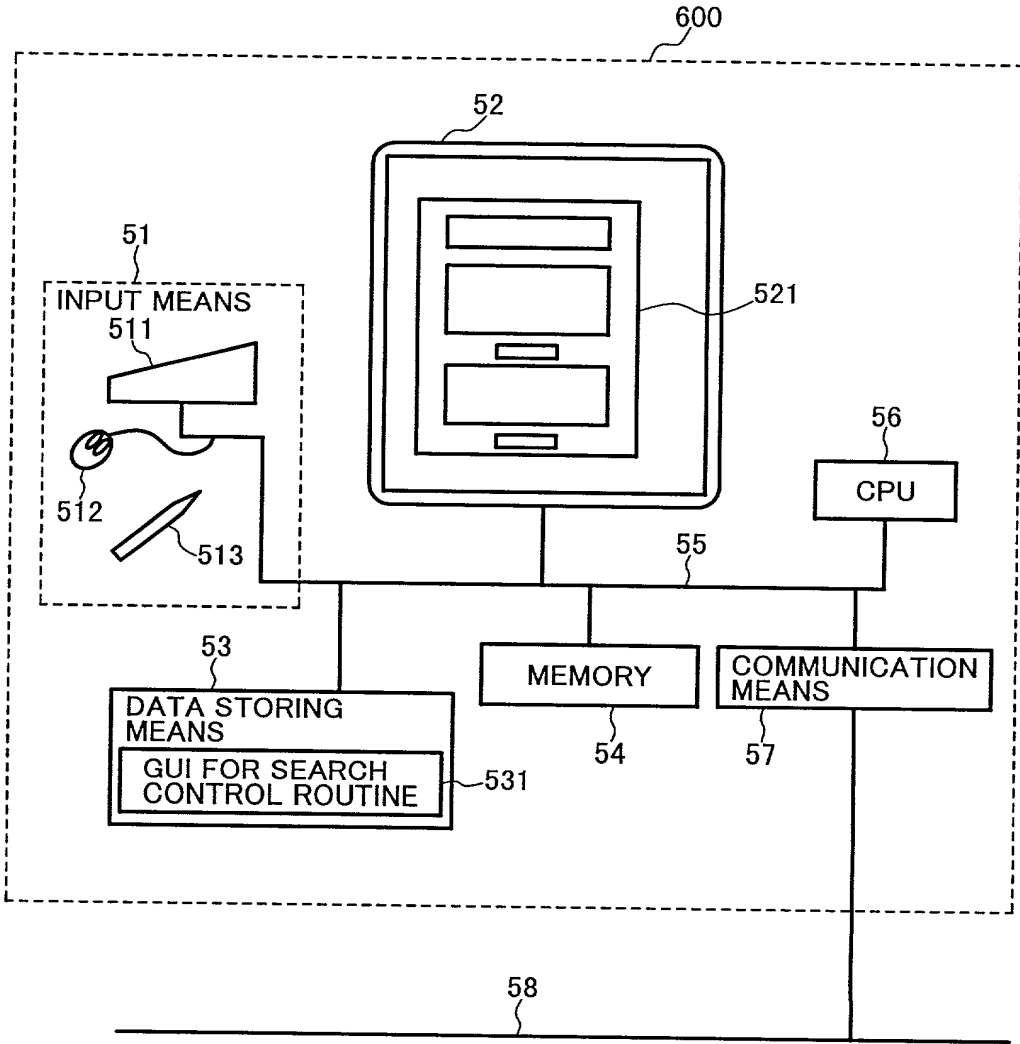


FIG.3

The interface is divided into several sections, each with a 'HIDE' button and a vertical scrollbar on the right.

- Section 11:** Contains a text input field labeled 'KEYWORD 1' (1101) and two buttons: 'KEYWORD SEARCH' (1102) and 'CLIPBOARD SEARCH' (1103).
- Section 12:** Contains a list of search sources:
 - ☒ A NEWSPAPER (1201) with an 'ASSOCIATIVE' (1203) button.
 - ☐ B ENCYCLOPEDIA (1202) with an 'ASSOCIATIVE' (1204) button.
 - ☒ C ARTICLE (1205) with an 'ASSOCIATIVE' (1206) button.
 - ☒ D PATENT DATABASE (1207) with an 'ASSOCIATIVE' (1208) button.
 - ☐ E SEARCH ENGINE (1209) with a 'KEYWORD' (1210) button.
 - ☒ F SEARCH ENGINE (1211) with a 'KEYWORD' (1212) button.
- Section 13:** Contains a list of materials:
 - ☐ A NEWSPAPER : MATERIAL 2 (1301)
 - ☐ D PATENT DB : MATERIAL 3 (1302)
 - ☐ E SEARCH ENGINE : MATERIAL 4 (1303)
 - ☐ A NEWSPAPER : MATERIAL 5 (1304)
 - ☐ F SEARCH ENGINE : MATERIAL 6 (1305)
- Section 14:** Contains a 'DOCUMENT SEARCH' (1306) button and a list of words:
 - WORD1 (1401), WORD2, WORD3, WORD4, WORD5 (1402)
 - WORD6, WORD7, WORD8, WORD9, WORD10 (1403)
- Section 1405:** Contains a button labeled 'SEARCH USING TOPIC WORDS AS A QUERY' (1404).

FIG.4

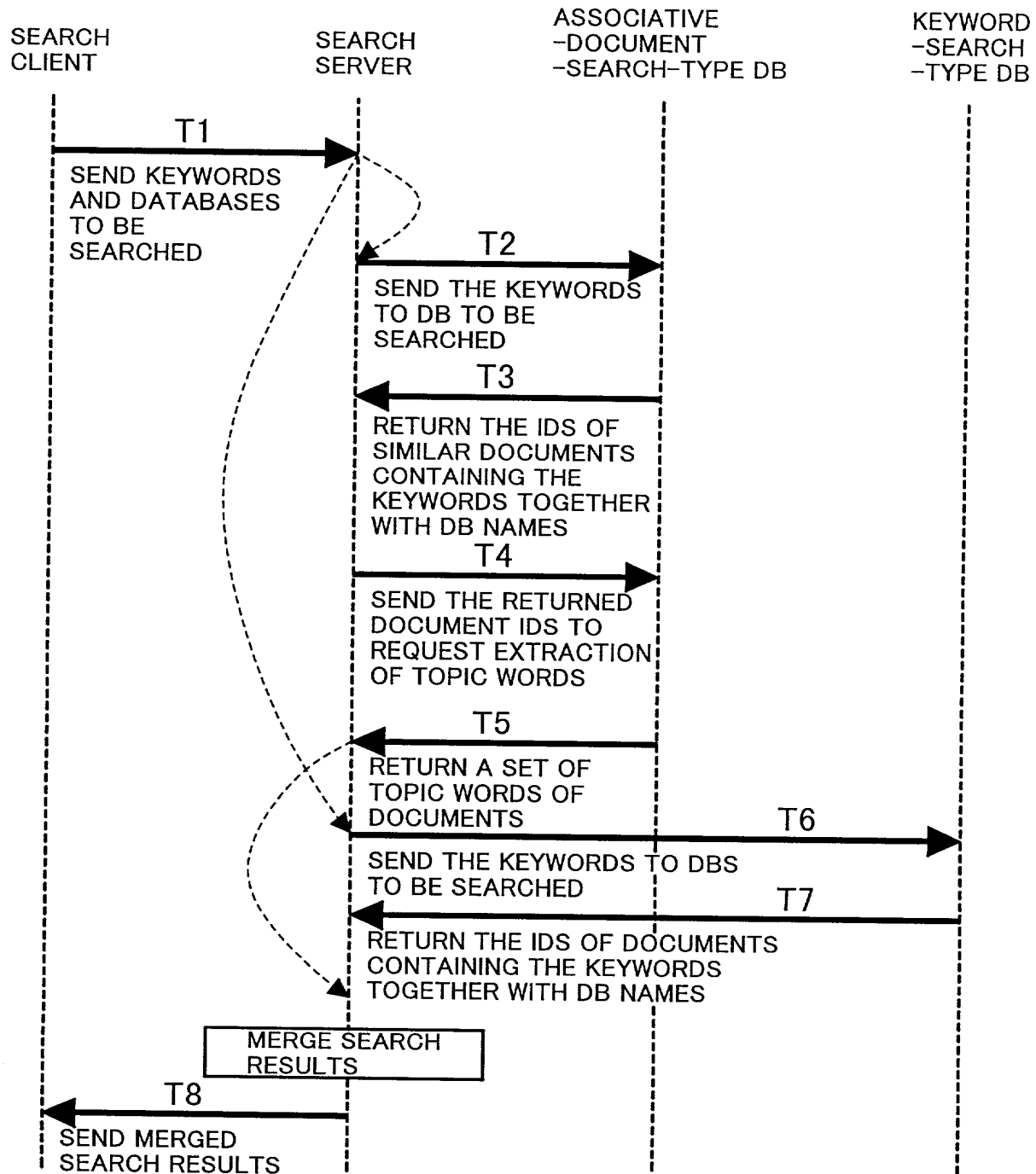


FIG.5

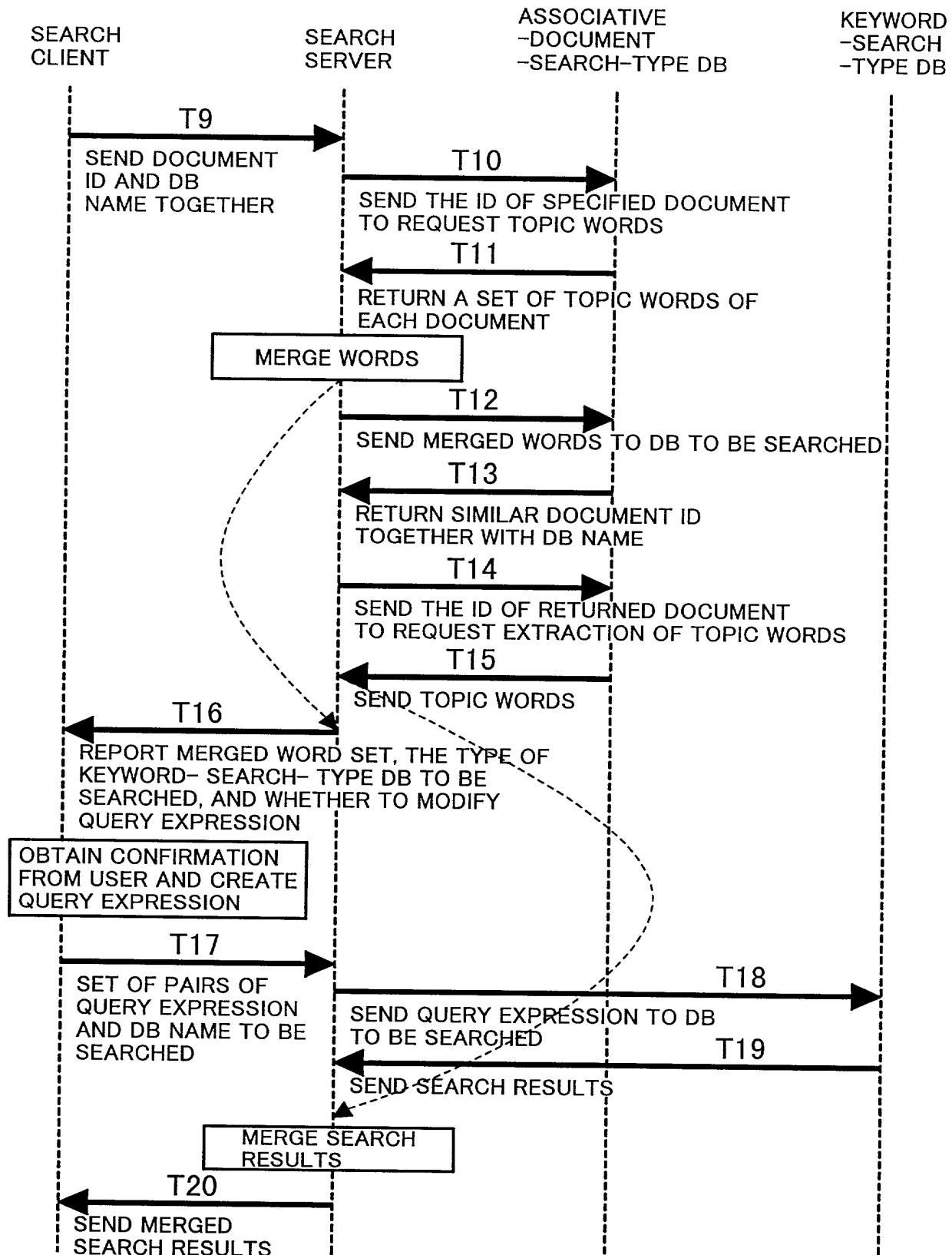


FIG.6

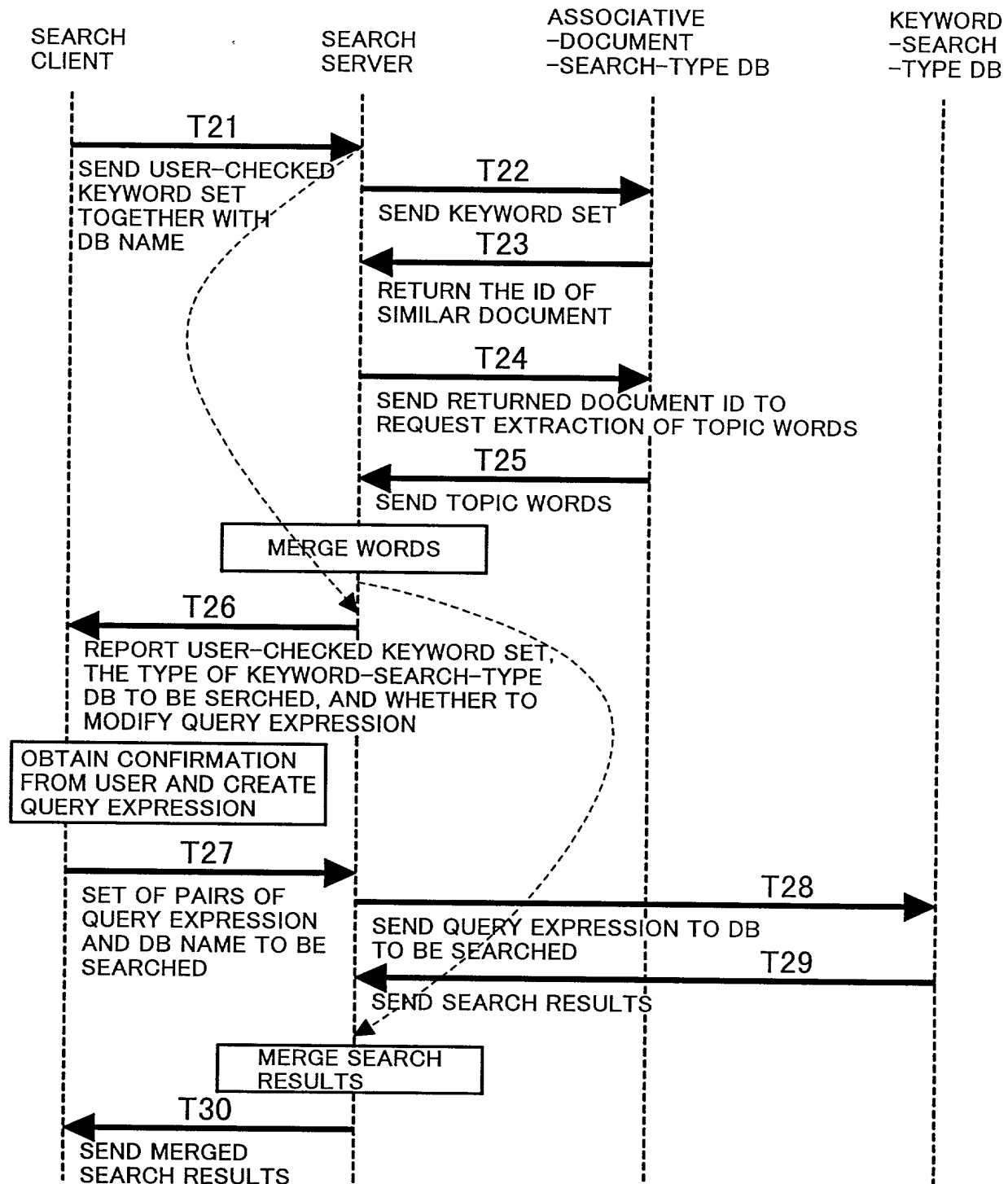


FIG.7

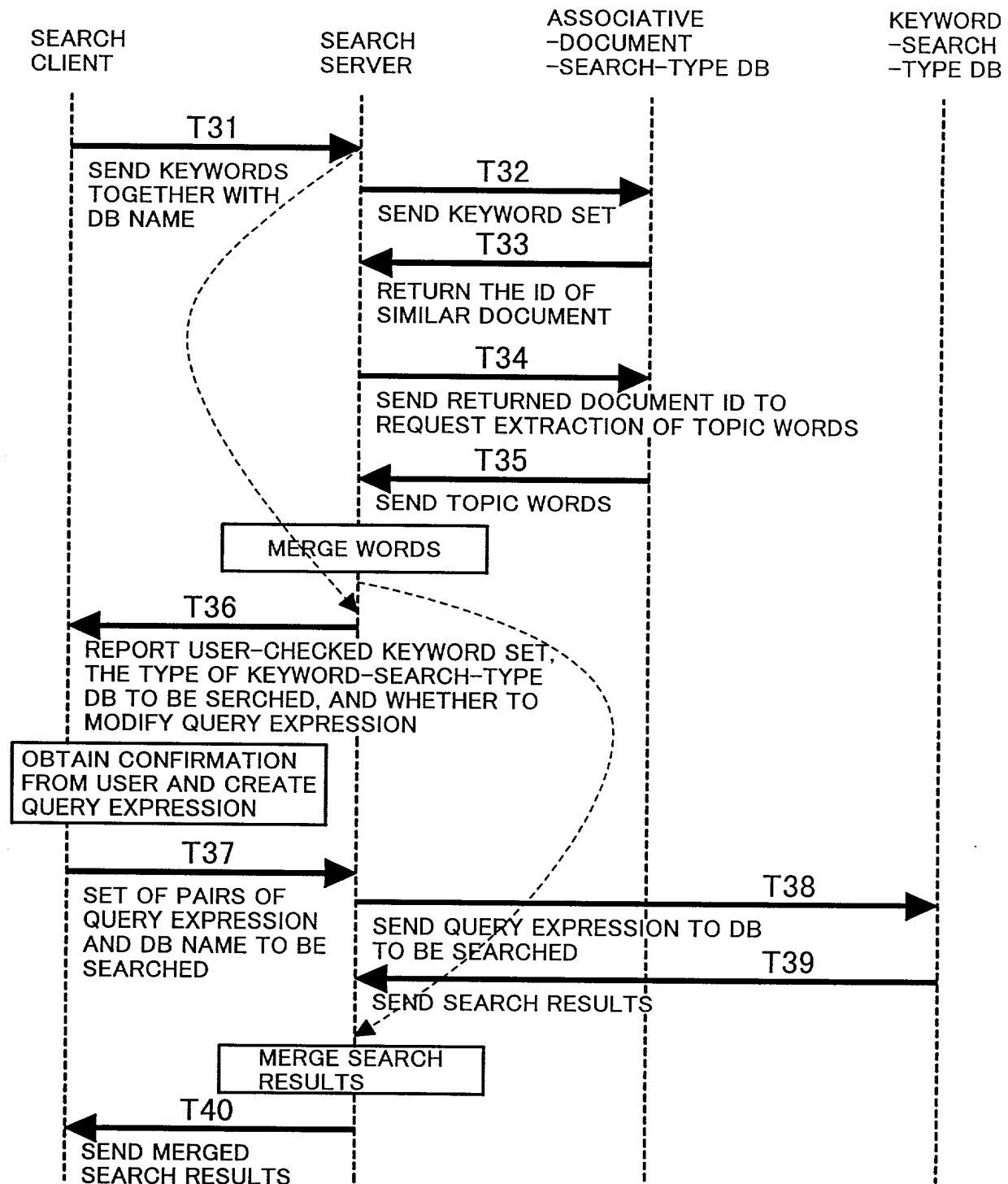


FIG.8

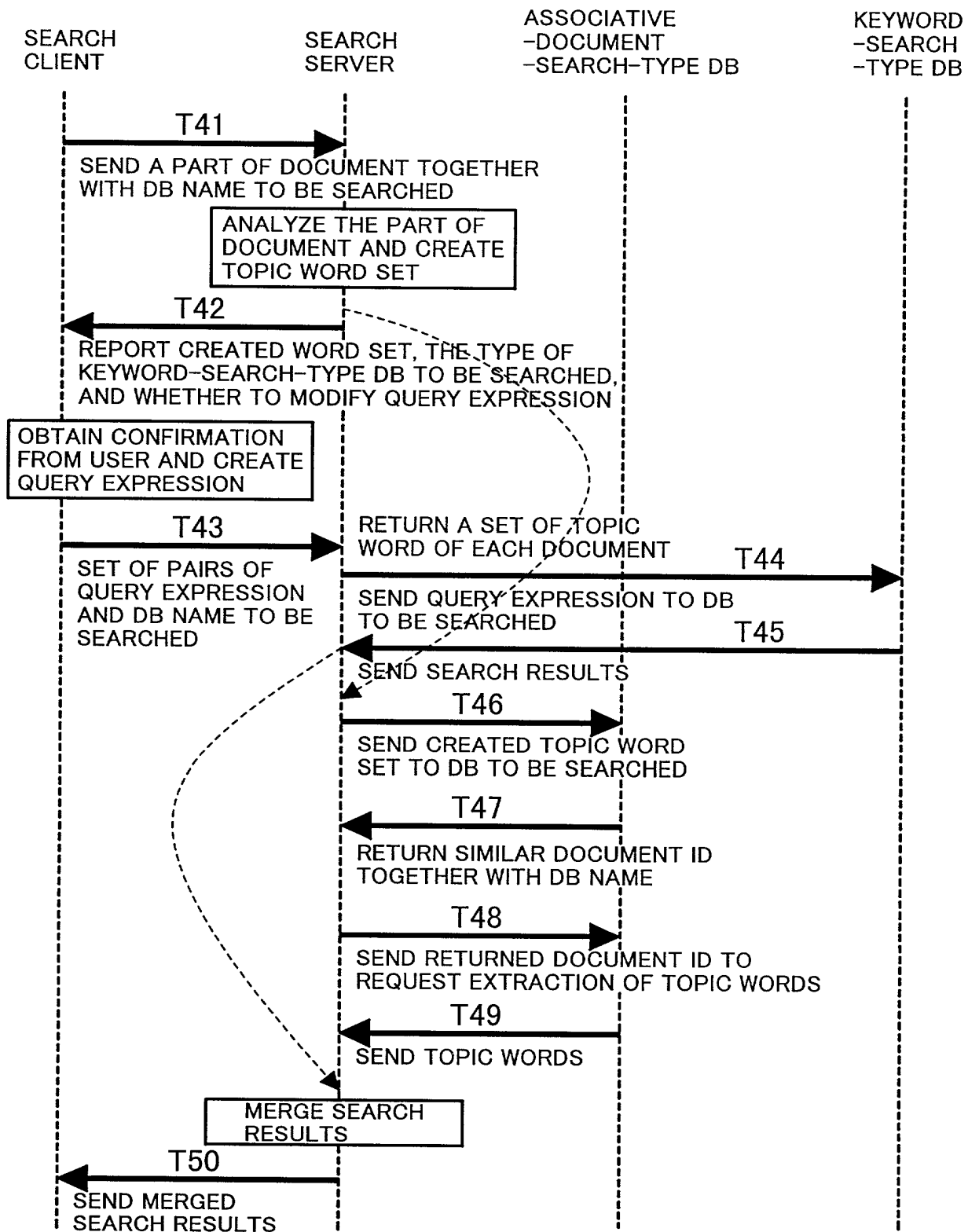


FIG.9

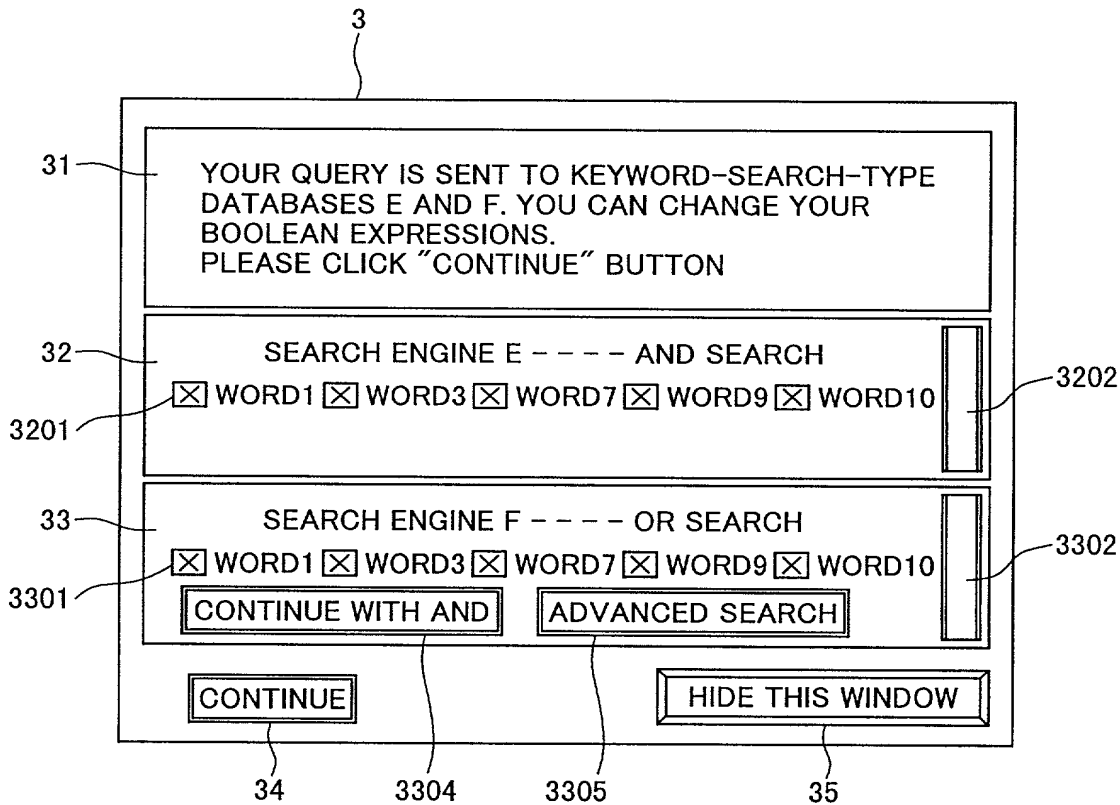


FIG.10

OPTION

1101

1102

KEYWORD 1

KEYWORD SEARCH

CLIPBOARD SEARCH

1103

HIDE

☒ A NEWSPAPER

ASSOCIATIVE

☐ B ENCYCLOPEDIA

ASSOCIATIVE

☒ C ARTICLE

ASSOCIATIVE

☐ D PATENT DATABASE

ASSOCIATIVE

☒ E SEARCH ENGINE

KEYWORD

☒ F SEARCH ENGINE

KEYWORD

1204

HIDE

1306

DOCUMENT SEARCH

HIDE

1405

SEARCH USING TOPIC WORDS AS A QUERY

12

13

14

FIG.11

OPTION

KEYWORD 1 KEYWORD SEARCH
CLIPBOARD SEARCH

HIDE

☒ A NEWSPAPER ASSOCIATIVE

☐ B ENCYCLOPEDIA ASSOCIATIVE

☒ C ARTICLE ASSOCIATIVE

☐ D PATENT DATABASE ASSOCIATIVE

☒ E SEARCH ENGINE KEYWORD

☒ F SEARCH ENGINE KEYWORD

HIDE

☒ C ARTICLE : MATERIAL 1

☒ A NEWSPAPER : MATERIAL 2

☐ D PATENT DB : MATERIAL 3

☐ E SEARCH ENGINE : MATERIAL 4

☐ A NEWSPAPER : MATERIAL 5

☐ F SEARCH ENGINE : MATERIAL 6

DOCUMENT SEARCH 1306

HIDE

☐ WORD1 ☐ WORD2 ☐ WORD3 ☐ WORD4 ☐ WORD5

☐ WORD6 ☐ WORD7 ☐ WORD8 ☐ WORD9 ☐ WORD10

SEARCH USING TOPIC WORDS AS A QUERY 1405

FIG.12

OPTION

KEYWORD 1

KEYWORD SEARCH

CLIPBOARD SEARCH

HIDE

☒ A NEWSPAPER

ASSOCIATIVE

☐ B ENCYCLOPEDIA

ASSOCIATIVE

☒ C ARTICLE

ASSOCIATIVE

☐ D PATENT DATABASE

ASSOCIATIVE

☒ E SEARCH ENGINE

KEYWORD

☒ F SEARCH ENGINE

KEYWORD

HIDE

☒ C ARTICLE : MATERIAL 1

☒ A NEWSPAPER : MATERIAL 2

☐ D PATENT DB : MATERIAL 3

☐ E SEARCH ENGINE : MATERIAL 4

☐ A NEWSPAPER : MATERIAL 5

☐ F SEARCH ENGINE : MATERIAL 6

DOCUMENT SEARCH

201

DISPLAYING TOPIC WORDS

FIG.13

OPTION

KEYWORD 1

KEYWORD SEARCH

CLIPBOARD SEARCH

HIDE

☒ A NEWSPAPER

ASSOCIATIVE

☐ B ENCYCLOPEDIA

ASSOCIATIVE

☒ C ARTICLE

ASSOCIATIVE

☐ D PATENT DATABASE

ASSOCIATIVE

☒ E SEARCH ENGINE

KEYWORD

☒ F SEARCH ENGINE

KEYWORD

202

DOCUMENT BROWSING

HIDE

☒ WORD1

☐ WORD2

☐ WORD3

☐ WORD4

☐ WORD5

☐ WORD6

☒ WORD7

☐ WORD8

☒ WORD9

☐ WORD10

SEARCH FROM

TOPIC WORDS

FIG.14

12

OPTION

KEYWORD 1

KEYWORD SEARCH

CLIPBOARD SEARCH

DB SELECTION

HIDE

☒ C ARTICLE : MATERIAL 1
☒ A NEWSPAPER : MATERIAL 2
☐ D PATENT DB : MATERIAL 3
☐ E SEARCH ENGINE : MATERIAL 4
☐ A NEWSPAPER : MATERIAL 5
☐ F SEARCH ENGINE : MATERIAL 6

ASSOCIATIVE
DOCUMENT SEARCH

HIDE

☐ WORD1 ☐ WORD2 ☐ WORD3 ☐ WORD4 ☐ WORD5
☐ WORD6 ☐ WORD7 ☐ WORD8 ☐ WORD9 ☐ WORD10

SEARCH FROM
TOPIC WORDS

FIG.15

1101

11

OPTION

KEYWORD 1

KEYWORD SEARCH

CLIPBOARD SEARCH

12

HIDE

☐ A NEWSPAPER ASSOCIATIVE

☐ B ENCYCLOPEDIA ASSOCIATIVE

☐ C ARTICLE ASSOCIATIVE

☐ D PATENT DATABASE ASSOCIATIVE

☒ E SEARCH ENGINE KEYWORD

☒ F SEARCH ENGINE KEYWORD

13

HIDE

☐ E SEARCH ENGINE : MATERIAL 1

☐ E SEARCH ENGINE : MATERIAL 1

☐ F SEARCH ENGINE : MATERIAL 1

☐ E SEARCH ENGINE : MATERIAL 1

☐ E SEARCH ENGINE : MATERIAL 1

☐ F SEARCH ENGINE : MATERIAL 1

14

DOCUMENT SEARCH 1306

HIDE

SEARCH USING TOPIC WORDS AS A QUERY 1405

FIG.16

OPTION

KEYWORD 1

KEYWORD SEARCH

CLIPBOARD SEARCH

HIDE

☐ A NEWSPAPER

ASSOCIATIVE

☒ B ENCYCLOPEDIA

ASSOCIATIVE

☐ C ARTICLE

ASSOCIATIVE

☐ D PATENT DATABASE

ASSOCIATIVE

☒ E SEARCH ENGINE

KEYWORD

☒ F SEARCH ENGINE

KEYWORD

HIDE

☐ E SEARCH ENGINE : MATERIAL 1

☐ E SEARCH ENGINE : MATERIAL 1

☐ F SEARCH ENGINE : MATERIAL 1

☐ E SEARCH ENGINE : MATERIAL 1

☐ E SEARCH ENGINE : MATERIAL 1

☐ F SEARCH ENGINE : MATERIAL 1

DOCUMENT SEARCH

HIDE

SEARCH USING TOPIC
WORDS AS A QUERY

12

1104

FIG.17

OPTION 1101

ALZHEIMER 1102

KEYWORD SEARCH

CLIPBOARD SEARCH

HIDE

☒ A NEWSPAPER ASSOCIATIVE

☐ B ENCYCLOPEDIA ASSOCIATIVE

☒ C ARTICLE ASSOCIATIVE

☒ D PATENT DATABASE ASSOCIATIVE

☒ E SEARCH ENGINE KEYWORD

☒ F SEARCH ENGINE KEYWORD

HIDE

DOCUMENT SEARCH 1306

HIDE

SEARCH USING TOPIC WORDS AS A QUERY 1405

13

14

FIG.18

OPTION

ALZHEIMER

KEYWORD SEARCH

CLIPBOARD SEARCH

HIDE

<input checked="" type="checkbox"/>	A NEWSPAPER	ASSOCIATIVE
<input type="checkbox"/>	B ENCYCLOPEDIA	ASSOCIATIVE
<input checked="" type="checkbox"/>	C ARTICLE	ASSOCIATIVE
<input checked="" type="checkbox"/>	D PATENT DATABASE	ASSOCIATIVE
<input checked="" type="checkbox"/>	E SEARCH ENGINE	KEYWORD
<input checked="" type="checkbox"/>	F SEARCH ENGINE	KEYWORD

HIDE

☐ C ARTICLE : nnnnn : Membrane-anchored aspartyl protease with Alzheimer
☐ A NEWSPAPER : mmmmm: enzyme which is considered as a trigger of Alzheimer's disease
☐ D PATENT DB : ○○○○○○○○ amyloid synthesis inhibitor
☐ E SEARCH ENGINE : Alzheimers.com News | Elusive Alzheimer's Enzyme
☐ A NEWSPAPER : ppppp : American bioventure companies (Amgen Inc.,etc)
☐ F SEARCH ENGINE : 1.Researchers find enzyme associated with Alzheimer

DOCUMENT SEARCH

HIDE

☐ amyloid- β ☐ alzheimer ☐ APP ☐ enzyme ☐ BACE
☐ β -secretase ☐ γ -secretase ☐ NSAIDs ☐ Amgen ☐ presenilin

SEARCH USING TOPIC WORDS AS A QUERY

13

14

FIG.19

OPTION

ALZHEIMER

KEYWORD SEARCH

CLIPBOARD SEARCH

HIDE

☐ A NEWSPAPER

ASSOCIATIVE

☐ B ENCYCLOPEDIA

ASSOCIATIVE

☐ C ARTICLE

ASSOCIATIVE

☐ D PATENT DATABASE

ASSOCIATIVE

☒ E SEARCH ENGINE

KEYWORD

☒ F SEARCH ENGINE

KEYWORD

HIDE

☒ C ARTICLE : nnnnn : Membrane-anchored aspartyl protease with Alzheimer

☐ A NEWSPAPER : mmmmm : enzyme which is considered as a trigger of Alzheimer's disease

☐ D PATENT DB : ○○○○○○○○ amyloid synthesis inhibitor

☐ E SEARCH ENGINE : Alzheimers.com News | Elusive Alzheimer's Enzyme

☐ A NEWSPAPER : ppppp : American bioventure companies (Amgen Inc.,etc)

☐ F SEARCH ENGINE : 1.Researchers find enzyme associated with Alzheimer

1306

DOCUMENT SEARCH

HIDE

☐ amyloid- β ☐ alzheimer ☐ APP ☐ enzyme ☐ BACE

☐ β -secretase ☐ γ -secretase ☐ NSAIDs ☐ Amgen ☐ presenilin

SEARCH USING TOPIC WORDS AS A QUERY

FIG.20

3

31

YOUR QUERY IS SENT TO KEYWORD-SEARCH-TYPE
DATABASES E AND F. YOU CAN CHANGE YOUR
BOOLEAN EXPRESSIONS.
PLEASE CLICK "CONTINUE" BUTTON

32

SEARCH ENGINE E - - - - AND SEARCH

3201

☐ β -secretase ☐ enzyme ☒ APP ☒ alzheimer ☐ BACE
☒ Transgenic mouse ☒ γ -secretase ☒ presenilin ☒ NSAIDs

33

SEARCH ENGINE F - - - - OR SEARCH

3301

☒ β -secretase ☒ enzyme ☒ APP ☒ alzheimer ☒ BACE
☒ Transgenic mouse ☒ γ -secretase ☒ presenilin ☒ NSAIDs

CONTINUE WITH AND

ADVANCED SEARCH

CONTINUE

HIDE THIS WINDOW

34

35

FIG.21

OPTION

KEYWORD SEARCH

CLIPBOARD SEARCH

HIDE

☐ A NEWSPAPER

ASSOCIATIVE

☐ B ENCYCLOPEDIA

ASSOCIATIVE

☐ C ARTICLE

ASSOCIATIVE

☐ D PATENT DATABASE

ASSOCIATIVE

☒ E SEARCH ENGINE

KEYWORD

☒ F SEARCH ENGINE

KEYWORD

HIDE

☒ E SEARCH ENGINE : Researchers find enzyme associated with Alzheimer's-

☒ E SEARCH ENGINE : Enzyme offers promise of Alzheimer..s drugs-Reference

☒ F SEARCH ENGINE : 99.10.22-Scientists find enzyme linked to Alzheimer's.

☒ E SEARCH ENGINE : Newsweek.com : Newsweek US Edition : Society : An Alz

☒ E SEARCH ENGINE : Alzheimer Web

☒ F SEARCH ENGINE : Alzheimers.com News | Elusive Alzheimer's Enzyme I den

1306

DOCUMENT SEARCH

HIDE

1405

SEARCH USING TOPIC WORDS AS A QUERY

14

FIG.22

OPTION

ALZHEIMER

KEYWORD SEARCH

CLIPBOARD SEARCH

HIDE

<input type="checkbox"/>	A NEWSPAPER	ASSOCIATIVE
<input type="checkbox"/>	B ENCYCLOPEDIA	ASSOCIATIVE
<input type="checkbox"/>	C ARTICLE	ASSOCIATIVE
<input type="checkbox"/>	D PATENT DATABASE	ASSOCIATIVE
<input checked="" type="checkbox"/>	E SEARCH ENGINE	KEYWORD
<input checked="" type="checkbox"/>	F SEARCH ENGINE	KEYWORD

HIDE

☐ C ARTICLE : nnnnn : Membrane-anchored aspartyl protease with Alzheimer

☐ A NEWSPAPER : mmmmm : enzyme which is considered as a trigger of Alzheimer's disease

☐ D PATENT DB : ○○○○○○○○ amyloid synthesis inhibitor

☐ E SEARCH ENGINE : Alzheimers.com News | Elusive Alzheimer's Enzyme

☐ A NEWSPAPER : ppppp : American bioventure companies (Amgen Inc.,etc)

☐ F SEARCH ENGINE : 1.Researchers find enzyme associated with Alzheimer

DOCUMENT SEARCH

HIDE

☐ amyloid- β ☒ alzheimer ☒ APP ☐ enzyme ☒ BACE

☒ β -secretase ☐ γ -secretase ☐ NSAIDs ☐ Amgen ☐ presenilin

1405 SEARCH USING TOPIC WORDS AS A QUERY

FIG.23

3

31 YOUR QUERY IS SENT TO KEYWORD-SEARCH-TYPE DATABASES E AND F. YOU CAN CHANGE YOUR BOOLEAN EXPRESSIONS. PLEASE CLICK "CONTINUE" BUTTON

32 SEARCH ENGINE E - - - - AND SEARCH

3201 ☒ β -secretase ☒ APP ☒ alzheimer ☒ BACE

33 SEARCH ENGINE F - - - - OR SEARCH

3301 ☒ β -secretase ☒ APP ☒ alzheimer ☒ BACE

CONTINUE WITH AND ADVANCED SEARCH

34 CONTINUE

35 HIDE THIS WINDOW

FIG.24

OPTION

KEYWORD SEARCH

CLIPBOARD SEARCH

HIDE

☐ A NEWSPAPER

ASSOCIATIVE

☐ B ENCYCLOPEDIA

ASSOCIATIVE

☐ C ARTICLE

ASSOCIATIVE

☐ D PATENT DATABASE

ASSOCIATIVE

☒ E SEARCH ENGINE

KEYWORD

☒ F SEARCH ENGINE

KEYWORD

HIDE

☒ F SEARCH ENGINE : 99.10.22-Scientists find enzyme linked to Alzheimer's.

☒ E SEARCH ENGINE : Researchers find enzyme associated with Alzheimer's-

☒ E SEARCH ENGINE : Enzyme offers promise of Alzheimer.s drugs-Reference

☒ E SEARCH ENGINE : Enzyme Points Way to Alzheimer's Therapies. Researcher

☒ E SEARCH ENGINE : Alzheimer Web

☒ F SEARCH ENGINE : Alzheimers.com News | Elusive Alzheimer's Enzyme I den

1306

DOCUMENT SEARCH

HIDE

1405

SEARCH USING TOPIC WORDS AS A QUERY

14

FIG.25

OPTION

ALZHEIMER

KEYWORD SEARCH

CLIPBOARD SEARCH

HIDE

☐

A NEWSPAPER

ASSOCIATIVE

☒

B ENCYCLOPEDIA

ASSOCIATIVE

☒

C ARTICLE

ASSOCIATIVE

☐

D PATENT DATABASE

ASSOCIATIVE

☐

E SEARCH ENGINE

KEYWORD

☐

F SEARCH ENGINE

KEYWORD

HIDE

☒ C ARTICLE : nnnnn : Membrane-anchored aspartyl protease with Alzheimer

☐ A NEWSPAPER : mmmmm: enzyme which is considered as a trigger of Alzheimer's disease

☒ D PATENT DB : OOOOOOOOO amyloid synthesis inhibitor

☐ E SEARCH ENGINE : Alzheimers.com News | Elusive Alzheimer's Enzyme

☐ A NEWSPAPER : ppppp : American bioventure companies (Amgen Inc.,etc)

☐ F SEARCH ENGINE : 1.Researchers find enzyme associated with Alzheimer

1306

DOCUMENT SEARCH

HIDE

☐ amyloid- β ☐ alzheimer ☐ APP ☐ enzyme ☐ BACE

☐ β -secretase ☐ γ -secretase ☐ NSAIDs ☐ Amgen ☐ presenilin

SEARCH USING TOPIC WORDS AS A QUERY

FIG.26

OPTION

KEYWORD SEARCH
CLIPBOARD SEARCH

HIDE

<input type="checkbox"/>	A NEWSPAPER	ASSOCIATIVE
<input checked="" type="checkbox"/>	B ENCYCLOPEDIA	ASSOCIATIVE
<input checked="" type="checkbox"/>	C ARTICLE	ASSOCIATIVE
<input type="checkbox"/>	D PATENT DATABASE	ASSOCIATIVE
<input type="checkbox"/>	E SEARCH ENGINE	KEYWORD
<input type="checkbox"/>	F SEARCH ENGINE	KEYWORD

HIDE

☒ C ARTICLE : nnnnn : Membrane-anchored aspartyl protease with Alzheimer
☒ B ENCYCLOPEDIA : Alzheimer's disease
☒ B ENCYCLOPEDIA : aging : [aging mechanism]
☒ C ARTICLE : bbbbbb : Purification and cloning of amyloid precursor protein
☒ C ARTICLE : ccccc : A second cytotoxic proteolytic peptide derived from
☒ C ARTICLE : ddddd : Nicastrin modulates presenilin-mediated notch/glp-1

DOCUMENT SEARCH

HIDE

☐ alzheimer ☐ enzyme ☐ APP ☐ β -secretase ☐ notch/glp-1
☐ Transgenic mouse ☐ BACE ☐ precursor ☐ presenilin

SEARCH USING TOPIC WORDS AS A QUERY

13

14

FIG.27

OPTION

ALZHEIMER

KEYWORD SEARCH
CLIPBOARD SEARCH

HIDE

☐ A NEWSPAPER ASSOCIATIVE

☒ B ENCYCLOPEDIA ASSOCIATIVE

☒ C ARTICLE ASSOCIATIVE

☐ D PATENT DATABASE ASSOCIATIVE

☐ E SEARCH ENGINE KEYWORD

☐ F SEARCH ENGINE KEYWORD

HIDE

☒ C ARTICLE : nnnnn : Membrane-anchored aspartyl protease with Alzheimer

☐ A NEWSPAPER : mmmmm : enzyme which is considered as a trigger of Alzheimer's disease

☒ D PATENT DB : ○○○○○○○○ amyloid synthesis inhibitor

☒ E SEARCH ENGINE : Alzheimers.com News | Elusive Alzheimer's Enzyme

☒ A NEWSPAPER : ppppp : American bioventure companies (Amgen Inc.,etc)

☒ F SEARCH ENGINE : 1.Researchers find enzyme associated with Alzheimer

DOCUMENT SEARCH

HIDE

☒ amyloid- β ☒ alzheimer ☒ APP ☐ enzyme ☒ BACE

☐ β -secretase ☐ γ -secretase ☐ NSAIDs ☐ Amgen ☐ presenilin

SEARCH USING TOPIC
WORDS AS A QUERY

FIG.28

OPTION

KEYWORD SEARCH

CLIPBOARD SEARCH

HIDE

☐ A NEWSPAPER

ASSOCIATIVE

☒ B ENCYCLOPEDIA

ASSOCIATIVE

☒ C ARTICLE

ASSOCIATIVE

☐ D PATENT DATABASE

ASSOCIATIVE

☐ E SEARCH ENGINE

KEYWORD

☐ F SEARCH ENGINE

KEYWORD

HIDE

☒ C ARTICLE : bbbbb : Purification and cloning of amyloid precursor protein

☒ C ARTICLE : eeeee : Ibuprofen, inflammation and Alzheimer disease.

☒ B ENCYCLOPEDIA : Alzheimer's disease

☒ C ARTICLE : nnnnn : Membrane-anchored aspartyl protease with Alzheimer

☒ C ARTICLE : ddddd : Nicastrin modulates presenilin-mediated notch/glp-1

☒ B ENCYCLOPEDIA : aging : [aging mechanism]

DOCUMENT SEARCH

HIDE

☐ amyloid

☐ alzheimer

☐ BACE

☐ β -secretase

☐ notch/glp-1

☐ Presenilin-mediated

☐ APP

☐ beta-APP

☐ precursor

SEARCH USING TOPIC WORDS AS A QUERY

13

14